| Index of Claim | s |
|----------------|---|
|                |   |

| Application/Control No. | Applicant(s)/Patent under<br>Reexamination |  |
|-------------------------|--|--|
| 10/720,287              | BOYER ET AL.                               |  |
| Examiner                | Art Unit                                   |  |
| Kevin M. Picardat       | 2822                                       |  |

| , | Rejected | - | (Through numeral)<br>Cancelled |
|---|----------|---|--------------------------------|
| = | Allowed  | ÷ | Restricted                     |

| N | Non-Elected  | A | Appeal   |
|---|--------------|---|----------|
| ı | Interference | 0 | Objected |

|          | aim           | т-       | _        | -        | _       | \at :    | _        | _         | _        | _        | <u> </u>      | .1       | _       |           |           | _        | _         |         | _       | _        | _        | _          | _        |         |          |              |         |              | _        |          |
|----------|---------------|----------|----------|----------|---------|----------|----------|-----------|----------|----------|---------------|----------|---------|-----------|-----------|----------|-----------|---------|---------|----------|----------|------------|----------|---------|----------|--------------|---------|--------------|----------|----------|
| Lik      | $\overline{}$ | -        | _        |          | ᆛ       | ate      | -        | _         | _        | -        | Cla           | aim      | ⊢       | _         | _         | Da       | te        | _       | _,      | _        | CI       | aim        | Ц,       | _       | _        | D            | ate     |              |          | _        |
| Final    | Original      | 11/14/05 |          |          |         |          |          |           |          |          | Final         | Original |         |           |           |          |           |         |         |          | Final    | Original   |          |         |          |              |         |              |          |          |
|          | 1             |          |          |          | $\Box$  |          |          |           |          |          |               | 51       | 1       | П         | $\top$    |          | 1         | П       | 7       | 7        | $\vdash$ | 101        | Н        | 7       | +        | +            | +       | +            | +        | +        |
| _        | 2             | Ш        | _        | _        | _       |          |          |           |          |          |               | 52       |         |           | $\exists$ | T        |           |         | $\neg$  |          |          | 102        | П        | +       | 1        | +            | +       | +            | +        | $^{+}$   |
| _        | 3             | Ш        | 4        | _        | 4       | _        |          | L         |          | _        |               | 53       |         |           | I         | I        |           |         | ┚       |          |          | 103        |          | 7       | T        | T            | 1       | +            | +        | T        |
| _        | 4             | Н        | 4        | -        | 4       | 4        | _        | Ш         | Ц        | _        | $\vdash$      | 54       | Ш       |           | _         | _        | L         |         | $\Box$  |          |          | 104        |          | T       |          | 7            |         | 7            | T        | 1        |
| -        | 5<br>6        | Н        | $\dashv$ | -        | 4       | 4        | _        | Ц         | _        | -        | -             | 55       | Ш       | _         |           | $\perp$  | ┖         | Ц       | _       | _        |          | 105        |          |         |          | I            |         | I            | Т        | Т        |
| _        | 7             | Н        | $\dashv$ | $\dashv$ | +       | 4        | -        | Н         |          | -        | $\vdash$      | 56       | ┖       | 4         | 4         | $\perp$  | ╄         | Ц       | _       | _        | $\vdash$ | 106        |          |         | I        | $\perp$      |         |              | Ι        | Г        |
|          | 8             | Н        | $\dashv$ | -        | -       | +        | Н        | Н         | $\dashv$ | $\dashv$ | -             | 57<br>58 | Н       | +         | +         | +        | ╄         | Н       | -+      | 4        | $\vdash$ | 107        | Ц        | 4       | 4        | 4            | 4       | 4            | 1        | 上        |
|          | 9             |          | $\dashv$ | -        | +       | $\dashv$ | $\dashv$ | Н         | $\dashv$ | -        | $\vdash$      | 59       | Н       | +         | +         | +        | +         | Н       | +       | -        | $\vdash$ | 108        | 4        | +       | 4        | 4            | 4       | 4            | 1        | 1        |
|          | 10            | Н        | -        | +        | +       | +        | $\dashv$ | $\dashv$  | +        | -        | $\vdash$      | 60       | Н       | +         | +         | +        | ╁         | Н       | -+      | 4        |          | 109        | -        | 4       | +        | 4            | 4       | +            | 4        | ㅗ        |
|          | 11            |          | 7        | +        | +       | 7        | -        | $\dashv$  | $\dashv$ | $\dashv$ | $\vdash$      | 61       | Н       | +         | +-        | +-       | +         | Н       | +       | -        | $\vdash$ | 110        | -        |         | +        | +            | +       | +            | ╀        | ╀        |
|          | 12            |          | 7        | _        | +       | 7        | $\dashv$ | _         | $\dashv$ | ┥.       | $\vdash$      | 62       | Н       | $^{+}$    | +         | +        | ╁         | Н       | +       | $\dashv$ | $\vdash$ | 112        | -        | +       | +        | +            | +       | +            | ╀        | ╀        |
|          | 13            |          | 7        | 7        | 7       | 1        | $\dashv$ | $\dashv$  | 7        | 7        | $\vdash$      | 63       | Н       | +         | +         | +        | +         | H       | +       | $\dashv$ | $\vdash$ | 113        | +        | +       | +        | +            | +-      | +            | ╁        | +        |
|          | 14            |          | 7        | 7        | $\neg$  | 7        |          | コ         | $\neg$   | ┑        |               | 64       | Н       | $\forall$ | ╅         | +        |           | H       | +       | $\dashv$ | $\vdash$ | 114        | +        | +       | +        | +            | +       | +            | ╁        | ╀        |
|          | 15            | $\Box$   | Π        |          |         | T        | $\neg$   | $\neg$    | ┪        | 7        |               | 65       |         | $\top$    | $\top$    | +        |           | Н       | +       | ┨.       | $\vdash$ | 115        | +        | +       | +        | +            | +       | +            | ╁        | ╁╴       |
| 1        | 16            | =        |          | J        | $\Box$  | I        |          |           |          |          | $\overline{}$ | 66       |         | 1         | $\top$    | T        |           |         | 7       | ٦.       |          | 116        | $\dashv$ | $^{+}$  | +        | +            | +       | +            | ╆        | ╁        |
| 2        | 17            | =        | _        | $\perp$  | $\perp$ | $\Box$   |          |           |          |          |               | 67       |         |           | Т         | Т        | П         |         | 1       | 7        |          | 117        | $\dashv$ | $^{+}$  | Ť        | $^{+}$       | +       | +-           | +        | +        |
| 3        | 18            | =        | 4        | 4        | 4       | 4        |          |           | _        |          |               | 68       |         | T         | T         |          |           |         | 7       | ٦.       |          | 118        | _        | 7       | Ť        | $^{\dagger}$ | $^{+}$  | +            | t        | $\vdash$ |
| 4        | 19            | =        | 4        | _        | 4       | 4        | 4        | _         | 4        |          |               | 69       |         | $\perp$   | Ι         | $\Box$   |           |         | I       |          |          | 119        | $\neg$   | 1       | T        | $\top$       | $\top$  | $^{+}$       | t-       | 1        |
| 5        | 20            | =        | 4        | -        | +       | 4        | 4        | 4         | 4        | 4        |               | 70       |         | _         | ┸         | 1        |           |         | _       |          |          | 120        | Т        |         | Τ        | Т            | Т       | 1            | T        |          |
| $\dashv$ | 21<br>22      | +        | +        | +        | +       | +        | +        | 4         | 4        | 4        | $\vdash$      | 71       | $\perp$ | 4         | +         | ┸        | Ц         | Ц       | 4       | 4        |          | 121        |          |         | Ι        | Ι            | Ι       |              |          |          |
| -        | 23            | +        | +        | +        | +       | +        | +        | +         | +        | 4        | $\vdash$      | 72       | -       | +         | +         | ╄        | Н         | 4       | 4       | 4        |          | 122        | 4        | _       | ┸        | ┸            | ┸       |              | L        |          |
| -        | 24            | +        | +        | +        | +       | +        | +        | +         | +        | 4        | $\vdash$      | 73       | +       | +         | +         | +-       | Н         | 4       | 4       | 4        | $\vdash$ | 123        | $\perp$  | _       | 1        | 1            | $\perp$ |              |          |          |
|          | 25            | +        | +        | +        | +       | +        | +        | +         | +        | -        | H             | 74<br>75 | +       | +         | +         | ┿        | Н         | +       | +       | 4        | $\vdash$ | 124        | 4        | +       | 1        | +            | 4       | ╀            | ┖        |          |
| $\neg$   | 26            | $^{+}$   | +        | +        | +       | +        | +        | +         | +        | _        | $\vdash$      | 76       | +       | +         | ╫         | ╀        | Н         | +       | +       | 4        | $\vdash$ | 125<br>126 | +        | +       | +        | +            | +       | ╀            | -        | -        |
|          | 27            | +        | +        | $^{+}$   | +       | +        | +        | +         | +        | ┪.       | $\vdash$      | 77       | +       | +         | +         | +        | Н         | +       | +       | ┥        | $\vdash$ | 127        | +        | +       | +        | ╁            | ╀       | ╀            | -        | Н        |
|          | 28            | $\top$   | 7        | +        | +       | †        | +        | +         | +        | ┪        | $\vdash$      | 78       | +       | -         | +         | $\vdash$ | Н         | +       | +       | +        |          | 128        | +        | ┿       | ╀        | +            | +       | +            | H        | ⊢        |
|          | 29            |          | T        |          | T       | T        | T        | $\forall$ | 7        | 7        | $\Box$        | 79       | ┪       | $\top$    | $^{+}$    | Н        | Н         | +       | +       | 1        |          | 129        | +        | +       | ٠        | +            | +       | ╁            | H        | -        |
|          | 30            | $\Box$   | T        |          | Т       | T        | T        | $\top$    | 7        | ٦        | $\Box$        | 80       | ヿ       | 1         | $^{+}$    | T        | Н         | 7       | ╅       | +        | $\vdash$ | 130        | +        | ╈       | t        | ╁            | ╁       | ╁            | Н        | H        |
| _        | 31            | _        | 1        | $\perp$  | Ι       | Ι        | I        | $\perp$   | I        |          |               | 81       | П       | $\top$    | 7-        | П        |           | _       | T       | 7        |          | 131        | +        | +       | t        | +            | $^{+}$  | †-           | Н        | Н        |
| _        | 32            | 4        | 4        | 4        | 4       | 1        | 4        | $\perp$   | $\perp$  |          |               | 82       |         | I         | Т         |          |           | T       | 7       | 7        |          | 132        | 7        | $\top$  | t        | T            | +       | 1            | Н        | Н        |
| -        | 33            | +        | 4        | +        | +       | 4        | 4        | 4         | 4        | 4        |               | 83       |         | _         | I         |          |           | Ι       | $\perp$ | ]        |          | 133        | 1        | $\top$  | T        | T            | Т       | $^{\dagger}$ | П        | П        |
|          | 34            | 4        | +        | +        | +       | +        | +        | 4         | 4        | 4        |               | 84       | 4       | _         | 1         | ш        | _         | _       | 1       |          |          | 134        | I        |         | Ι        | Т            | I       | Т            | П        | П        |
|          | 35<br>36      | +        | +        | +        | +       | +        | +        | +         | +        | 4        |               | 85       | 4       | +         | 4         | Ш        | _         | 4       | 4       | 1        |          | 135        |          | $\perp$ | I        | Г            |         | $\Box$       |          |          |
|          | 37            | +        | +        | +        | +       | +        | +        | +         | +        | 4        |               | 86       | +       | -         | ╀         | Ш        | -4        | 4       | +       | ┙.       |          | 136        | 4        | $\perp$ | L        |              | $\perp$ |              |          |          |
|          | 38            | +        | +        | +        | ┿       | +        | +        | +         | +        | -        |               | 87       | +       | +         | +         | Н        | -         | 4       | +       | 4        |          | 137        | 4        | $\perp$ | L        | L            | _       |              |          |          |
|          | 39            | +        | +        | +        | +       | +        | +        | +         | +        | 4        |               | 88<br>89 | +       | +         | +-        | Н        | +         | +       | +       | 4 1      |          | 138        | 4        | +       | L        | ┺            | L       | L            |          | _        |
|          | 40            | +        | +        | +        | +       | +        | +        | +         | +        | ١.       |               | 90       | +       | +         | ┿         | -        | $\dashv$  | +       | +       | - 1      |          | 139        | +        | +-      | ┞        | ╀            | -       | 1            | Н        | 4        |
|          | 41            | +        | +        | +        | +       | t        | +        | +         | +        | 1        |               | 91       | +       | +         | +-        | Н        | +         | +       | +       | - 1      |          | 140        | +        | ╀       | ╀        | ╀            | ╀       | 1            | $\vdash$ | _        |
| 7        | 42            | +        | 十        | +        | +       | +        | +        | $^{+}$    | $^{+}$   | 1        |               | 92       | +       | +         | ╁╴        | Н        | +         | +       | +       | 1        |          | 141<br>142 | +        | +       | -        | ⊬            | ⊬       | H            | $\dashv$ | _        |
|          | 43            | T        | 1        | T        | Τ       | Ť        | +        | +         | +        | ٦.       |               | 93       | +       | +         | ✝         | Н        | +         | +       | ┿       | 1        |          | 143        | +        | +-      | ┝        | Ͱ            | +       | Н            | Н        | $\dashv$ |
|          | 44            | I        | I        | Ι        | Τ       | T        | T        | Ť         | T        | 7        |               | 94       | $^{+}$  | +         | +         | Н        | +         | +       | +       | 11       |          | 144        | +        | +-      | ╁        | ⊢            | +       | Н            | $\dashv$ | $\dashv$ |
|          | 45            | I        | Ι        | Ι        | Ι       | Ι        | Ι        | I         | Ι        | ] [      |               | 95       | +       | 1         | $\vdash$  | Н        | +         | +       | †       | 11       |          | 145        | +        | +-      | H        | t            | H       | Н            | $\dashv$ | $\dashv$ |
|          | 46            | Ι        | Τ        | I        | Ι       | I        | T        | T         | T        | 1        |               | 96       | $\top$  | $\top$    |           | П        | 7         | $^{+}$  | ╁       | 1        |          | 146        | +        | +       | 1        | ۲            | -       | Н            | +        | $\dashv$ |
|          | 47            | 1        | 1        | Ţ        | T       | Γ        | Γ        | I         | Ι        | ] [      |               | 97       | I       | I         | I         |          | $\exists$ |         | T       | 1 1      |          | 147        | $^{+}$   | +       | $\vdash$ | †            | 1       | Н            | $\dashv$ | $\dashv$ |
|          | 48            | 4        | 1        | Ĺ        | $\perp$ | 1        | 1        | T         | T        | ] [      |               | 98       | T       | T         |           |          |           | $\perp$ | I       | ]        |          | 148        | $\top$   | T       | T        | T            | 1       | Н            | +        | $\dashv$ |
|          | 49            | 4        | +        | +        | 1       | 1        | 4        | 1         | 1        | 41       |               | 99       | _[      | I         |           | П        | I         | $\perp$ | Ι       | ] [      |          | 149        | T        |         |          | Τ            | Г       | Н            | _        | ⊣        |
| :        | 50            | L        |          | ⊥_       | L       | L        | ┸        | $\perp$   | $\perp$  | J l      | 1             | 00       | _[      | 1         | П         | LT       | Т         | Г       | T       | 1 [      | 1        | 150        | Т        | T       | _        | 1            |         | П            | $\dashv$ | ┪        |